

IN THE CLAIMS:

Please re-write the claims to read as follows:

Please cancel claims 29-53 without prejudice.

- 1 1. (PREVIOUSLY PRESENTED) A system for reporting information related to prede-
2 termined storage volumes in a network, the system including at least one storage appli-
3 ance comprising:
4 a monitor process that identifies volumes and retrieves statistical information with
5 respect to the volumes, each volume including a cluster of physical storage disks and de-
6 fining a logical arrangement of storage space;
7 an interface adapted to enable a plurality of selected volumes to be associated
8 with a group, the group independent of a physical arrangement of physical storage disks
9 in the network; and
10 a reporting process that organizes and displays the statistical information with re-
11 spect to the volumes associated with the group to interested parties.
- 1 2. (ORIGINAL) The system as set forth in claim 1 wherein the reporting process in-
2 cludes an event process for determining identities of the interested parties with respect to
3 a predetermined event condition with respect to the volumes based upon the statistical
4 information and for notifying the interested parties.

1 3. (ORIGINAL) The system as set forth in claim 2 wherein the event conditions include
2 parameters of the volume and an associated device of the volume that exceed threshold
3 levels.

1 4. (ORIGINAL) The system as set forth in claim 3 wherein the parameters include at
2 least one of a central processing utilization level, a storage disk free space, a storage disk
3 used space, an environmental condition and operational status.

1 5. (PREVIOUSLY PRESENTED) The system as set forth in claim 3 wherein the event
2 process is adapted to e-mail event information to at least some of the interested parties.

1 6. (ORIGINAL) The system as set forth in claim 5 wherein the e-mail of the event in-
2 formation includes web links for use by the interested parties.

1 7. (ORIGINAL) The system as set forth in claim 3 further comprising a database that
2 retains information with respect to the interested parties and the threshold levels for the
3 parameters.

1 8. (ORIGINAL) The system as set forth in claim 1 wherein the each of the volumes are
2 attached to each of a plurality of filers, respectively.

1 9. (ORIGINAL) The system as set forth in claim 1 further comprising a command proc-
2 ess for generating web pages that report the statistical information to at least some of the
3 interested parties.

1 10. (ORIGINAL) The system as set forth in claim 9 wherein the web pages are con-
2 structed and arranged as graphical user interfaces that enable display of the statistical in-
3 formation in a plurality of predetermined windows and boxes within the windows based
4 upon selection criteria entered by the interested parties.

1 11. (ORIGINAL) The system as set forth in claim 10 further comprising alerts displayed
2 on the graphical user interface based upon problems identified by the monitor process
3 with respect to the volumes or devices associated with the volumes.

1 12. (ORIGINAL) The system as set forth in claim 11 wherein the alerts are color-coded
2 based upon severity of the problems, respectively.

1 13. (PREVIOUSLY PRESENTED) The system as set forth in claim 1 wherein the re-
2 porting process is adapted to consolidate the statistical information from one or more
3 volumes on one or more storage appliances into the group.

1 14. (PREVIOUSLY PRESENTED) A graphical user interface for use with a manage-
2 ment station or client attached to a network having storage volumes, the graphical user
3 interface comprising:

4 a display window that enables at least one of the volumes to be selectively associ-
5 ated with a desired group of interested parties, each volume including a cluster of physi-
6 cal storage disks and defining a logical arrangement of storage space; and
7 a display window that shows information related to performance and status of the
8 volumes of the group based upon criteria selected by the user.

1 15. (ORIGINAL) The graphical user interface as set forth in claim 14 wherein the infor-
2 mation includes at least one of central processing unit usage, volume disk free space, vol-
3 ume disk used space; environmental conditions; general operational status and events in
4 which an operational parameter exceeds a predetermined threshold.

1 16. (ORIGINAL) The graphical user in interface as set forth in claim 15 wherein the
2 events include alerts that are color-coded based upon severity of a problem.

1 17. (ORIGINAL) The graphical user interface as set forth in claim 15 further comprising
2 a link box that directs a user to network or Internet-based utilities in connection with the
3 information.

1 18. (ORIGINAL) The graphical user interface as set forth in claim 14 wherein each dis-
2 play window is formatted as a web page and is displayed on a web browser.

1 19. (PREVIOUSLY PRESENTED) A method for reporting information related to prede-
2 termined storage volumes in a network, the method including at least one storage appli-
3 ance comprising the steps of:

4 identifying volumes and retrieving statistical information with respect to the vol-
5 umes, each volume including a cluster of physical storage disks and defining a logical
6 arrangement of storage space;

7 associating at least one of the identified volumes with a group, the group inde-
8 pendent of a physical arrangement of physical storage disks in the network; and

9 organizing and displaying the statistical information with respect to the volumes
10 associated with the group to interested parties.

1 20. (ORIGINAL) The method as set forth in claim 19 wherein the step of reporting in-
2 cludes e-mailing the statistical information to at least some of the interested parties.

1 21. (ORIGINAL) The method as set forth in claim 20 further comprising formatting a
2 web page containing the statistical information in a predetermined display format.

1 22. (ORIGINAL) The method as set forth in claim 21 further comprising changing the
2 predetermined display format based upon user-selected criteria.

1 23. (ORIGINAL) The method as set forth in claim 19 wherein the step of organizing and
2 displaying includes displaying event information related to predetermined of the statisti-
3 cal information that exceeds desired parameters.

1 24. (ORIGINAL) The method as set forth in claim 23 wherein the step of displaying the
2 event information includes providing color-coded alerts that indicated a severity of a
3 problem associated with the respective event.

1 25. (PREVIOUSLY PRESENTED) A computer-readable medium operating on a com-
2 puter in a network that includes one or more storage appliance having volumes, the com-
3 puter-readable medium including program instructions for performing the steps of:
4 identifying storage volumes and retrieving statistical information with respect to
5 the volumes, each volume including a cluster of physical storage disks and defining a
6 logical arrangement of storage space;
7 associating at least one of the identified volumes with a group, the group inde-
8 pendent of a physical arrangement of physical storage disks in the network; and
9 organizing and displaying the statistical information with respect to the volumes
10 associated with the group to interested parties.

1 26. (PREVIOUSLY PRESENTED) A method for organizing and displaying information
2 with respect to one or more volumes on one or more storage appliances attached to a
3 network, the method comprising the steps of:
4 establishing a group of one or more of the volumes based upon predetermined re-
5 porting criteria, each volume including a cluster of physical storage disks and defining a
6 logical arrangement of storage space, each volume having statistical information associ-
7 ated therewith,; and
8 consolidating the statistical information collected with respect to the volumes in
9 the group for display to interested parties.

1 27. (ORIGINAL) The method as set forth in claim 26 further comprising comparing
2 known predetermined threshold values to parameters of the statistical information gener-
3 ating an event condition when the at least one of the parameters exceeds at least one of
4 the threshold values, respectively.

- 1 28. (PREVIOUSLY PRESENTED) The method as set forth in claim 27 further com-
- 2 prising notifying at least one of the interested parties based upon the event condition us-
- 3 ing an electronic message.

29-53 (Cancelled)

Please add new claims 54, et seq., as follows:

1 54. (New) A method for reporting information related to a plurality of storage volumes
2 in a network, comprising the steps of:

3 retrieving statistical information with respect to the plurality of volumes, the vol-
4 umes stored on one or more RAID systems, each RAID system of the one or more RAID
5 systems implemented on a plurality of physical storage disks;

6 associating at least one of the identified volumes with a group, the group inde-
7 pendent of the one or more RAID systems on which the volumes are stored; and

8 organizing and displaying the statistical information with respect to the plurality
9 of volumes associated with the group to interested parties.

1 55. (New) The method of claim 54, further comprising:

2 determining if a parameter of a volume exceeds a threshold level; and

3 in the event that the parameter does exceed the threshold level, notifying
4 the interested parties.

1 56. (New) The method of claim 54, further comprising:

2 generating a web page that reports the statistical information to at least
3 some of the interested parties.

1 57. (New) The method of claim 54, further comprising:

2 displaying the statistical information in a plurality of predetermined windows and
3 boxes within the windows based upon selection criteria entered by the interested parties.

1 58. (New) The method of claim 54, further comprising:

2 directing a user to Internet based utilities in connection with the information.

1 59. (New) The method of claim 54, further comprising:

2 directing a user to network based utilities in connection with the information.

1 60. (New) The method of claim 54, further comprising:

2 formatting a display window for the statistical information as a web page to be
3 displayed on a web browser.

1 61. (New) An apparatus to report information related to a plurality of storage volumes in
2 a network, comprising the steps of:

3 means for retrieving statistical information with respect to the plurality of vol-
4 umes, the volumes stored on one or more RAID systems, each RAID system of the one or
5 more RAID systems implemented on a plurality of physical storage disks;

6 means for associating at least one of the identified volumes with a group, the
7 group independent of the one or more RAID systems on which the volumes are stored;
8 and

9 means for organizing and displaying the statistical information with respect to the
10 plurality of volumes associated with the group to interested parties.

1 62. (New) The apparatus of claim 61, further comprising:

2 means for determining if a parameter of a volume exceeds a threshold level; and

3 in the event that the parameter does exceed the threshold level, means for
4 notifying the interested parties.

- 1 63. (New) The apparatus of claim 61, further comprising:
2 means for generating a web page that reports the statistical information to
3 at least some of the interested parties.
- 1 64. (New) The apparatus of claim 61, further comprising:
2 means for displaying the statistical information in a plurality of predetermined
3 windows and boxes within the windows based upon selection criteria entered by the in-
4 terested parties.
- 1 65. (New) The apparatus of claim 61, further comprising:
2 means for directing a user to Internet based utilities in connection with the infor-
3 mation.
- 1 66. (New) The apparatus of claim 61, further comprising:
2 means for directing a user to network based utilities in connection with the infor-
3 mation.
- 1 67. (New) The apparatus of claim 61, further comprising:
2 means for formatting a display window for the statistical information as a web
3 page to be displayed on a web browser.
- 1 68. (New) A computer readable media, comprising:
2 said computer readable media containing instructions for execution on a processor
3 for the practice of a method for reporting information related to a plurality of storage vol-
4 umes in a network, the method having the steps of,

5 retrieving statistical information with respect to the plurality of volumes, the vol-
6 umes stored on one or more RAID systems, each RAID system of the one or more RAID
7 systems implemented on a plurality of physical storage disks;
8 associating at least one of the identified volumes with a group, the group inde-
9 pendent of the one or more RAID systems on which the volumes are stored; and
10 organizing and displaying the statistical information with respect to the plurality
11 of volumes associated with the group to interested parties.